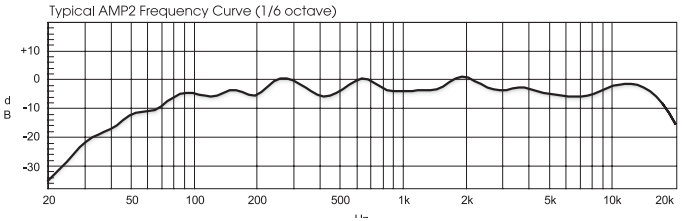
World Leader •In-Rack• Audio & Video Monitoring

October 12, 2004

WOHLER AMP2-SDA/AVU

Premium Quality, 2 Channel Analog, AES/EBU & SDI Self-Powered Speaker System with True VU Meters



Features:

Premium Quality Drivers for Superior Reproduction
1 SDI Input (Select either Sub-Group of Group One)
1 Unbalanced AES/EBU Digital Input
SDI Audio Groups 2-4 Selectable via Internal Jumper
2 Balanced Analog Inputs (1 Stereo)
1 Reclocked SDI Output
Demuxing of Either Sub-Group of SDI Group One to 1 AES/EBU Digital Output
Balanced Analog Output of Selected Digital Source
Powerful 104dB SPL at 2 feet (0.6m)
2 Premium Quality Mechanical VU Meters
Exceeds ANSI PPM Meter Specifications
Extended Frequency Response and Low Distortion
Focused Sound, Reduces Adjacent Bay Crosstalk
Audible Indication of Phase/Polarity Problems
Innovative LED Display of Phase/Polarity Relationships
Thorough Magnetic Shielding for Placement next to Video Monitors
Compact & Convenient, all this Power in only 2U of rack space
Headphone Jack, Mutes Speakers
Quick and Simple Installation
A similar unit with an integrated 4" LCD Video screen for SDI and composite video is now available - the VAMP2-SDA from PANORAMAdtv

The AMP2-SDA/AVU is a complete exceptionally high quality stereo audio monitoring system for monitoring 2 channels from Analog, AES/EBU Digital and SDI sources in a compact two rackspace cabinet. This unit contains three audiophile-quality drivers and three power amplifiers; two speakers and amplifiers reproduce midrange and high frequency information in stereo, while the third amp/driver combination handles summed LF information below the 500 Hz crossover point.

The AMP2-SDA/AVU features 2 Premium Quality Mechanical VU Meters showing VU for superior level-metering. The front panel features an innovative LED Display of Phase/Polarity Relationships. Output limiter circuits are incorporated to protect the speakers, and extensive magnetic shielding allows placement immediately adjacent to video monitors with no color impurities.

The unique design provides optimally focused sound for operators in an Ultra Near Field (1 to 3 ft.) working environment and offers performance comparable to that of many separate monitor pairs, yet does so without the installation hassles, awkward speaker placements and "added-on" look. This provides for a higher SPL for the operator while reducing overall ambient sound and adjacent bay crosstalk. Extended HF response reveals potential problems with audio whine or hiss and electronic rather than acoustic cancellation of bass frequencies provides positive audible detection of out-of-phase (reversed polarity) audio feeds. A headphone jack is provided on the front panel, usage automatically mutes the speakers.

The AMP2-SDA/AVU is ideally suited for use in VTR bays, mobile production vehicles, teleconferencing installations, multimedia systems, satellite link and cable TV facilities, and on-air radio studios. Built and rigorously tested in the USA, the AMP2-SDA/AVU is backed by a strong warranty and a "Satisfaction Guaranteed" return policy.

Wohler

Audio Monitoring | Level Metering | Alarm Systems | Video Monitoring

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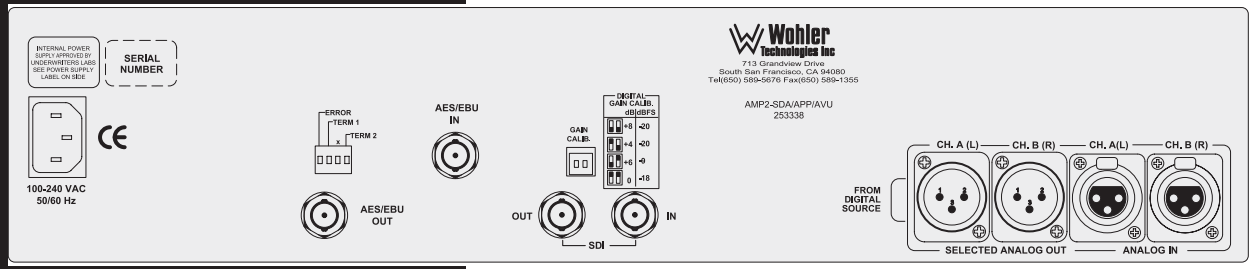
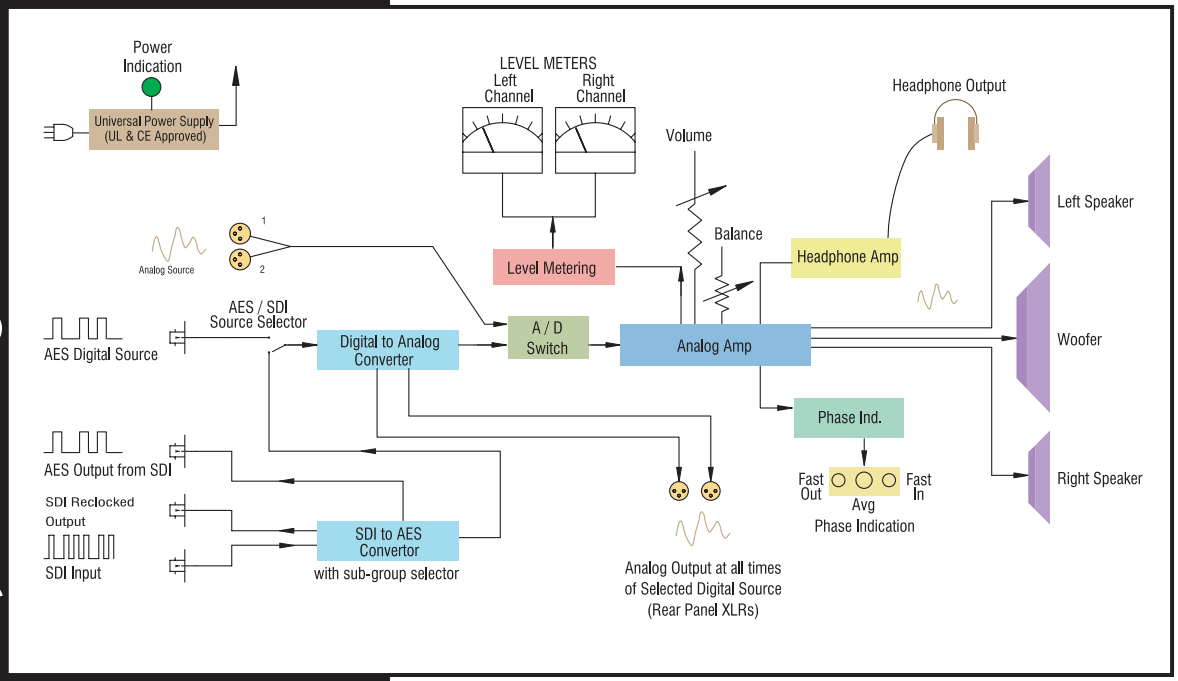
Rear Panel:



System Diagram:



Specifications:

Analog input	2 balanced analog inputs (XLR)
AES/EBU input	1 unbalanced AES/EBU input (BNC)
SDI input	1 SDI input (BNC)
Analog output	balanced analog output of selected digital pair (XLR)
AES/EBU output	1 unbalanced AES/EBU from SDI input (BNC)
SDI output	1 reclocked SDI output (BNC)
Level meters	2 x mechanical VU meters
Level meter threshold	-6, 0, +4, or +8 dBv: DIP switch selectable
Midscale resolution	1dB
Peak acoustic output @ 2 feet	104dB SPL
Power output	RMS each side (4 Ohms) - 10W, 14W peak RMS center WOOFER (4 Ohms) - 25W, 35W peak
Frequency response (1/6 octave)	80Hz - 16kHz (±5dB) (-10dB @ 40Hz, 22kHz)
Analog input impedance	>40 kOhms balanced
AES/EBU input termination	75 Ohms unbalanced
SDI input termination	75 Ohms unbalanced
AES/EBU input sampling rate	32-48kHz, auto-detecting
Hum and noise	better than -68dB below full output
Electrical distortion	<0.15% at any level below limit threshold
Acoustic distortion	6% or less worst case frequencies above 120Hz including cabinet resonance, typically < 1.5%
Magnetic shielding	<0.8 gauss any adjacent surface
Power consumption (AVG. MAX.)	45W
Dimensions (HxWxD)	3.5 x 19 x 12" (44.5 x 483 x 305mm)
Weight (approx.)	18lbs (8.2kg)
Power supply	100 to 240VAC, 50/60Hz universal inputCE and UL approved

All specifications are subject to improvement

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